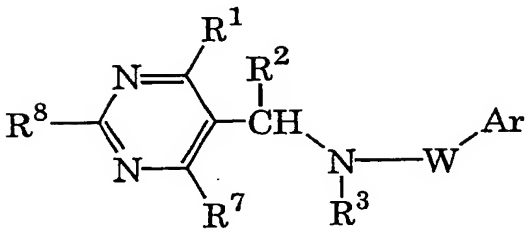
IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A pyrimidine derivative represented by the formula (I)



(I)

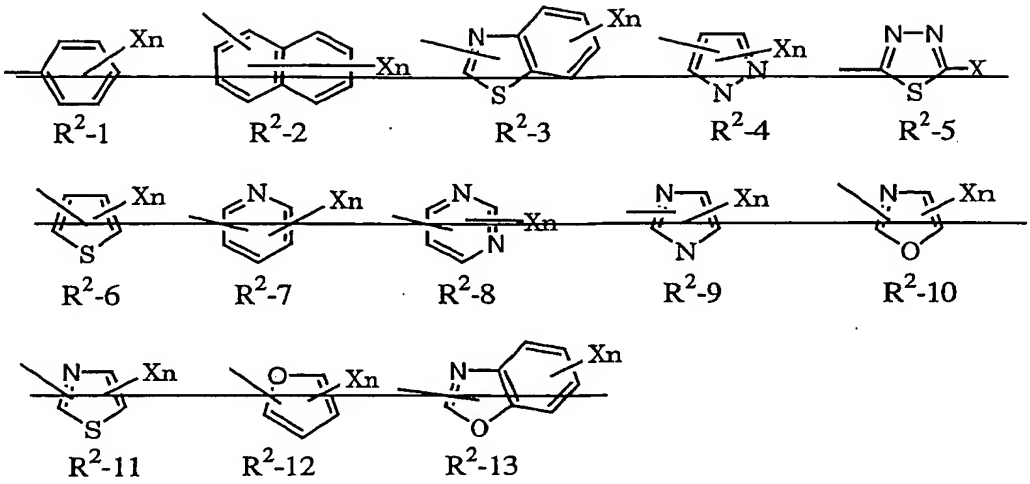
wherein R^1 is a hydrogen atom (except for a case where R^2 = hydrogen atom, and W=SO_2), a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylcarbonyl C_1-C_6 alkyl group, a hydroxyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkynyloxy group, a C_3-C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a cyano C_1-C_6 alkyl group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a

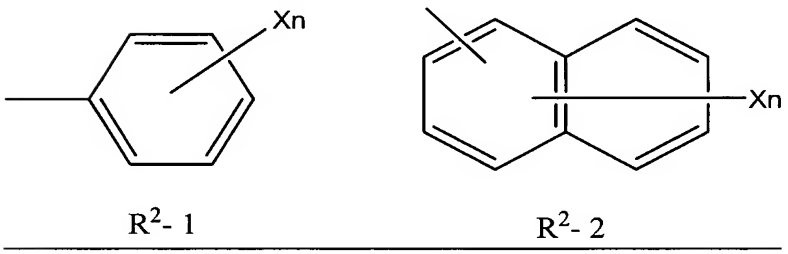
C_1-C_6 alkylthio group (except for a case where R^2 = phenyl group, and W=SO_2), a C_2-C_6 alkenylthio group, a C_2-C_6 alkynylthio group, a C_3-C_6 cycloalkylthio group, a C_1-C_6 alkylsulfinyl group, a C_2-C_6 alkenylsulfinyl group, a

C_2-C_6 alkynylsulfinyl group, a C_3-C_6 cycloalkylsulfinyl group, a C_1-C_6 alkylsulfonyl group, a C_2-C_6 alkenylsulfonyl group, a C_2-C_6 alkynylsulfonyl group, a C_3-C_6 cycloalkylsulfonyl group, a C_1-C_6 hydroxyalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkoxy

C_1-C_6 alkyl group, a cyano group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl C_2-C_6 alkenyl group, a carboxyl group, a carboxyl C_1-C_6 alkyl group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group), an aldehyde group, an oxiranyl group, a NR^9R^{10} group or a $CONR^9R^{10}$ group, and R^9 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group or a C_1-C_6 alkylsulfonyl group, and R^{10} is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkylsulfonyl group, a C_1-C_6 alkoxycarbonyl group or a benzyloxycarbonyl group~~,; here R^9 and R^{10} may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring,~~

R^2 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_2-C_7 acyl group, a cyano group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, ~~a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group),~~ a cyano C_1-C_6 alkyl group, a C_1-C_6 hydroxyalkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a $CR^{11}R^{12}NR^9R^{10}$ group, a $CONR^9R^{10}$ group, a $CR^{11}R^{12}CONR^9R^{10}$ group or a group represented by ~~any one of~~ the formulae ~~R^2-1 to R^2-13~~ R^2-1 or R^2-2:





{ and wherein X is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

C_1-C_4 haloalkyl group, and n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~),~~;

each of R^{11} and R^{12} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group or a C_1-C_6 alkoxy group~~,~~;

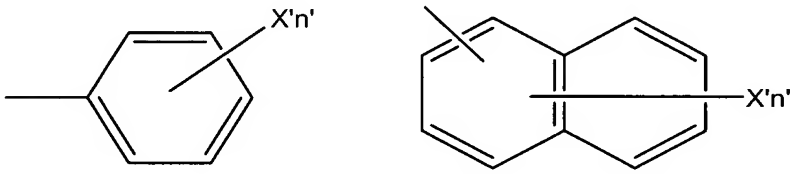
R^3 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a di C_1-C_6 alkylamino group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl C_1-C_6 alkyl group, an oxiranyl C_1-C_6 alkyl group or a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group~~,~~ ;

W is a –C(=Q)Z- group or a $-SO_2$- group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a $-NR^6$- group, a

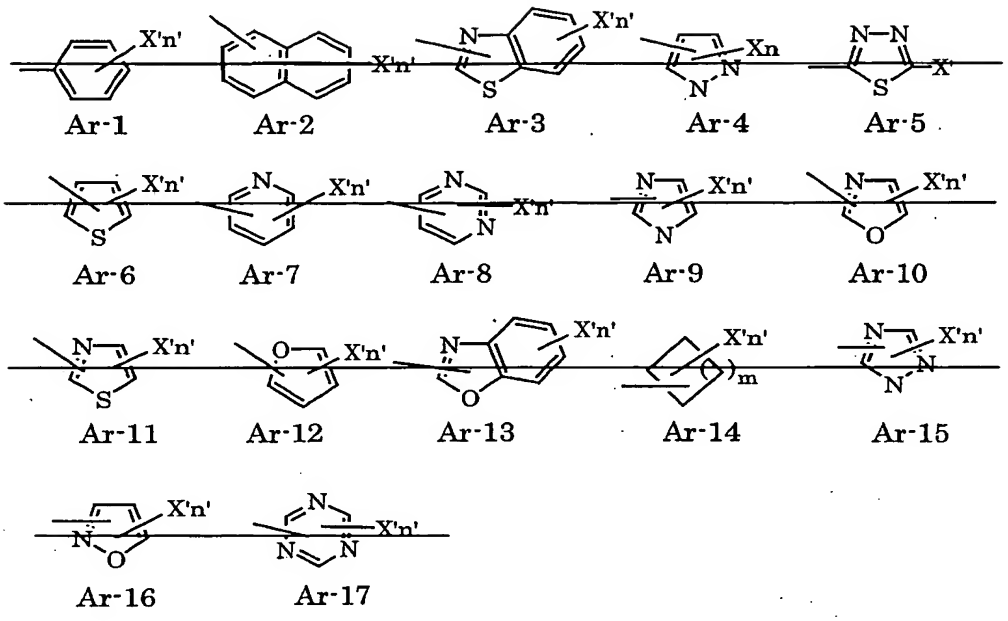
$-CH_2CH_2$- group, a –CH=CH- group, a $-C(R^4)R^5$- group, a

$-C(R^4)R^5$-Q- group, a -Q–$C(R^4)R^5$- group, a –C(=Q)- group, a $-NR^6NR^{6a}$- group or a $-NR^6C(R^4)R^5$- group, and each of R^4 and R^5 is a hydrogen atom, a C_1-C_6 alkyl group, a halogen atom, a C_1-C_6 alkoxy group or a C_1-C_6 alkylthio group, each of R^6 and R^{6a} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group or a C_2-C_6 alkynyl group~~,~~; ~~here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5- to 7-membered cyclic urea,~~

Ar is a group represented by ~~any one of~~ the formulae ~~Ar-1 to Ar-17~~ Ar-1or Ar-2:



Ar- 1 Ar- 2



and (wherein X' is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

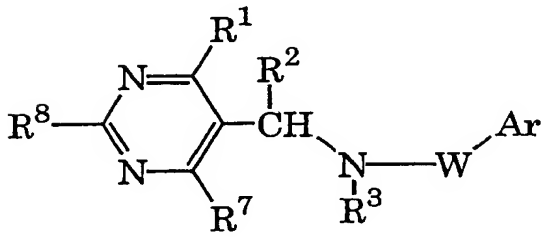
C_1-C_4 haloalkyl group, n' is an integer of from 1 to 3~~, m is an integer of from 0 to 3,~~ and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~)~~;

R^7 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a

C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group; and

R^8 is a hydrogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group.

Claim 2 (Currently Amended): A pyrimidine derivative represented by the formula (I)



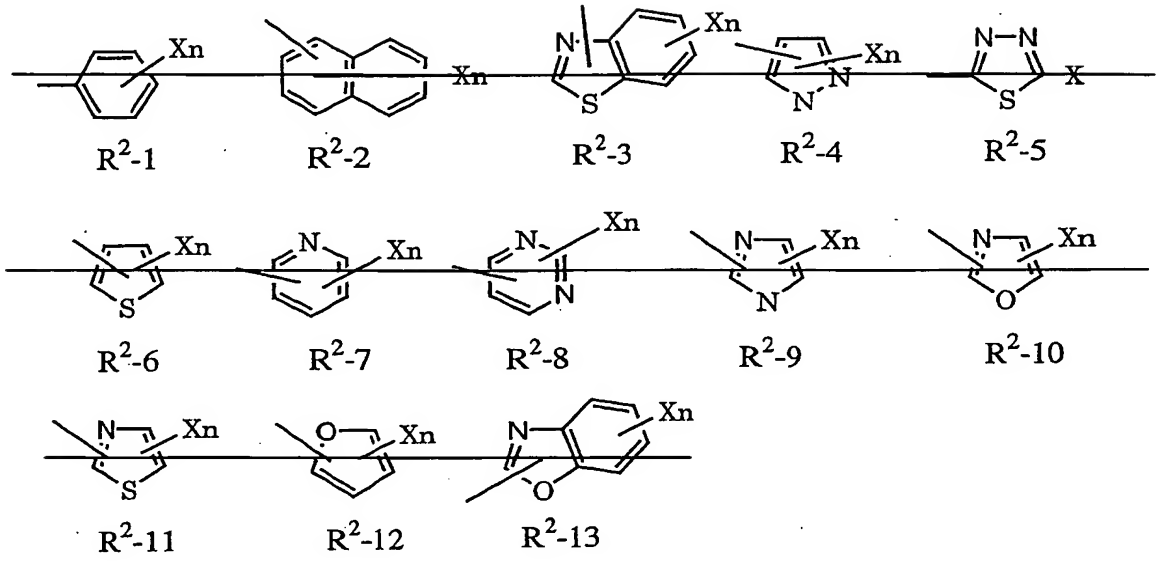
(I)

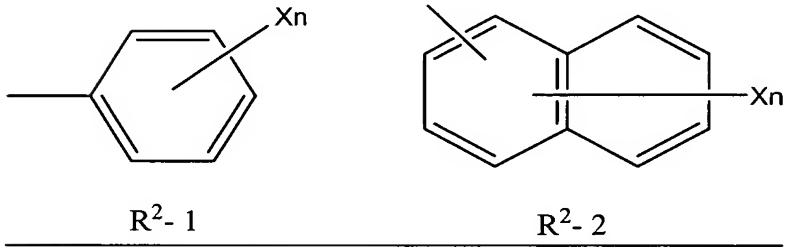
wherein R^1 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylcarbonyl C_1-C_6 alkyl group, a hydroxyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a

C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkynyloxy group, a C_3-C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a C_1-C_6 alkylthio group, a C_2-C_6 alkenylthio group, a C_2-C_6 alkynylthio group, a C_3-C_6 cycloalkylthio group, a C_1-C_6 alkylsulfinyl group, a C_2-C_6 alkenylsulfinyl group, a C_2-C_6 alkynylsulfinyl group, a C_3-C_6 cycloalkylsulfinyl group, a C_1-C_6 alkylsulfonyl group, a C_2-C_6 alkenylsulfonyl group, a C_2-C_6 alkynylsulfonyl group, a C_3-C_6 cycloalkylsulfonyl group, a hydroxyalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano group, a cyano C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-

C_6 alkoxycarbonyl C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl C_2-C_6 alkenyl group, a carboxyl group, a carboxyl C_1-C_6 alkyl group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group), an aldehyde group, an oxiranyl group, a NR^9R^{10} group or a $CONR^9R^{10}$ group, and R^9 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group or a C_1-C_6 alkylsulfonyl group, and R^{10} is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkylsulfonyl group, a C_1-C_6 alkoxycarbonyl group or a benzyloxycarbonyl group~~,~~; ~~here R^9 and R^{10} may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring,~~

R^2 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_2-C_7 acyl group, a cyano group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, ~~a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group),~~ a cyano C_1-C_6 alkyl group, a C_1-C_6 hydroxyalkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a $CR^{11}R^{12}NR^9R^{10}$ group, a $CONR^9R^{10}$ group, a $CR^{11}R^{12}CONR^9R^{10}$ group or a group represented by ~~any one of~~ the formulae ~~R^2-1 to R^2-13~~ R^2-1 or R^2-2:





and (wherein X is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

C_1-C_4 haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group), and each of R^{11} and R^{12} is a

hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group or a C_1-C_6 alkoxy group~~,~~ ;

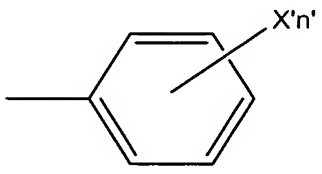
R^3 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a di C_1-C_6 alkylamino group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl C_1-C_6 alkyl group, an oxiranyl C_1-C_6 alkyl group or a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group~~,~~;

W is a –C(=Q)Z- group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a $-NR^6-$ group, a

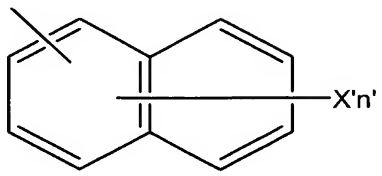
$-CH_2CH_2-$ group, a –CH=CH- group, a $-C(R^4)R^5-$ group, a

$-C(R^4)R^5$-Q- group, a -Q–$C(R^4)R^5-$ group, a –C(=Q)- group, a $-NR^6NR^{6a}-$ group or a $-NR^6C(R^4)R^5-$ group, each of R^4 and R^5 is a hydrogen atom, a C_1-C_6 alkyl group, a halogen atom, a C_1-C_6 alkoxy group or a C_1-C_6 alkylthio group, each of R^6 and R^{6a} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group or a C_2-C_6 alkynyl group~~,~~; ~~here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5- to 7-membered cyclic urea,~~

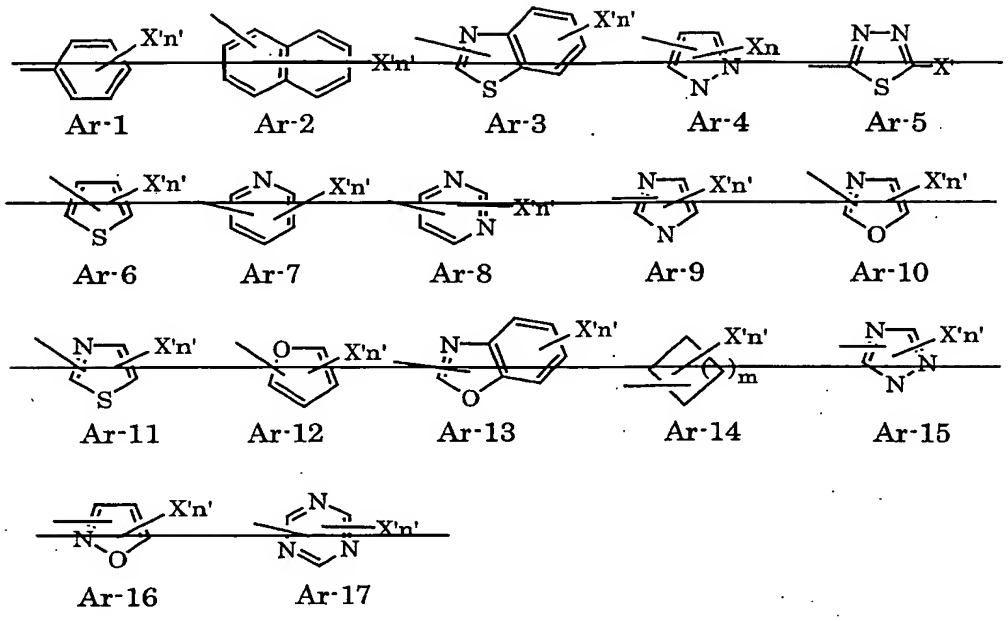
Ar is a group represented by ~~any one of~~ the formulae ~~Ar-1 to Ar-17~~ Ar-1 or Ar-2:



Ar- 1



Ar- 2



and ~~(~~wherein X' is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

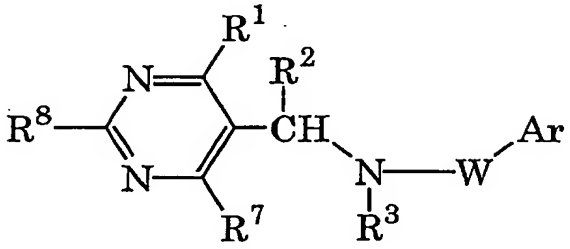
C_1-C_4 haloalkyl group, n' is an integer of from 1 to 3~~, m is an integer of from 0 to 3~~, and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~),~~;

R^7 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a

C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group~~,~~; and

R^8 is a hydrogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group.

Claim 3 (Currently Amended): A pyrimidine derivative represented by the formula (I)

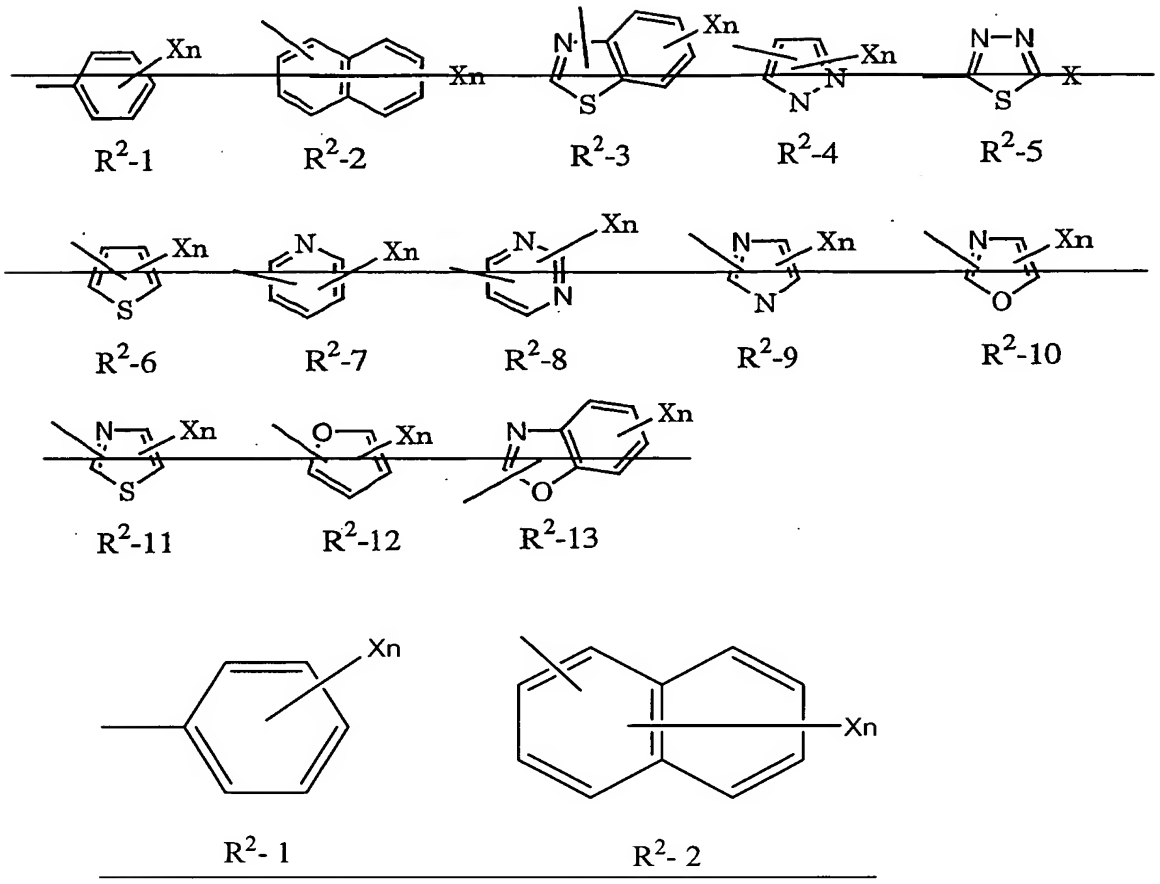


(I)

wherein R^1 is a halogen atom, a C_1-C_6 alkyl group, an oxo C_1-C_6 alkyl group, a hydroxyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkynyloxy group, a C_3-C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a C_2-C_6 alkenylthio group, a C_2-C_6 alkynylthio group, a C_3-C_6 cycloalkylthio group, a C_1-C_6 alkylsulfinyl group, a C_2-C_6 alkenylsulfinyl group, a C_2-C_6 alkynylsulfinyl group, a C_3-C_6 cycloalkylsulfinyl group, a C_1-C_6 alkylsulfonyl group, a C_2-C_6 alkenylsulfonyl group, a C_2-C_6 alkynylsulfonyl group, a C_3-C_6 cycloalkylsulfonyl group, a hydroxyalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano group, a cyano C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a C_1-C_6

alkoxycarbonyl C_2-C_6 alkenyl group, a carboxyl group, a carboxyl C_1-C_6 alkyl group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group), an aldehyde group, an oxiranyl group, a NR^9R^{10} group or a $CONR^9R^{10}$ group, and R^9 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group or a C_1-C_6 alkylsulfonyl group, and R^{10} is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkylsulfonyl group, a C_1-C_6 alkoxycarbonyl group or a benzyloxycarbonyl group~~,; here R^9 and R^{10} may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring,~~

R^2 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_2-C_7 acyl group, a cyano group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, ~~a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group),~~ a cyano C_1-C_6 alkyl group, a C_1-C_6 hydroxyalkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a $CR^{11}R^{12}NR^9R^{10}$ group, a $CONR^9R^{10}$ group, a $CR^{11}R^{12}CONR^9R^{10}$ group or a group represented by ~~any one of~~ the formulae ~~R^2-1 to R^2-13~~ R^2-1 or R^2-2:



and (wherein X is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

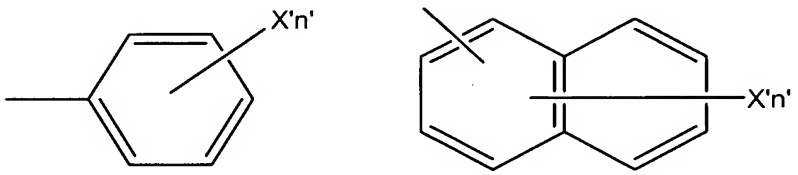
C_1-C_4 haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group), and each of R^{11} and R^{12} is a

hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group or a C_1-C_6 alkoxy group~~;~~;

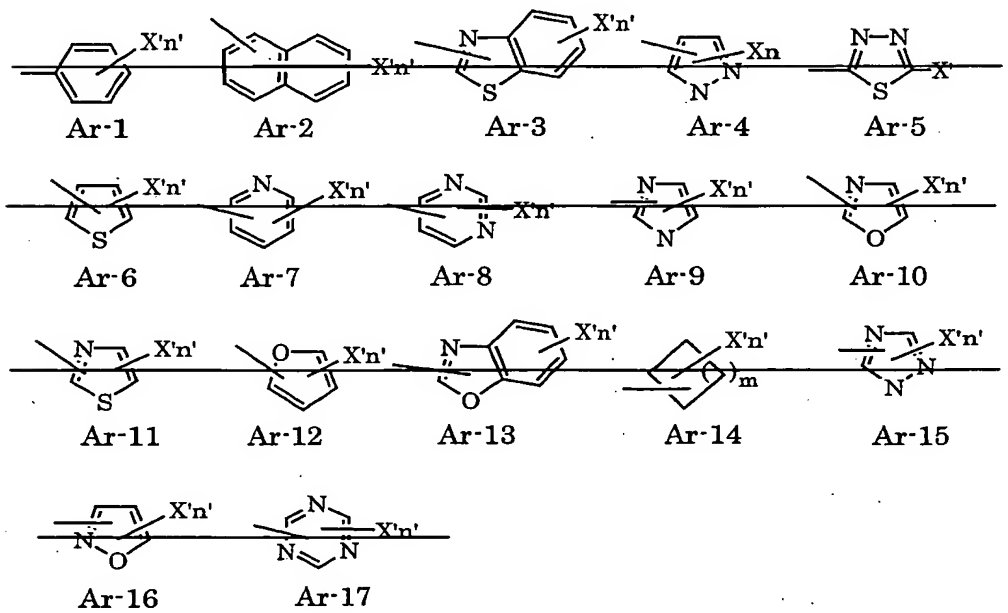
R^3 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a di C_1-C_6 alkylamino group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl C_1-C_6 alkyl group, an oxiranyl C_1-C_6 alkyl group or a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group~~;~~;

W is a $-SO_2-$ group~~;~~;

Ar is a group represented by ~~any one of~~ the formulae ~~Ar-1 to Ar-17~~ Ar-1 or Ar-2:



Ar- 1 Ar- 2



and (wherein X' is a hydrogen atom, a halogen atom, an alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a

C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

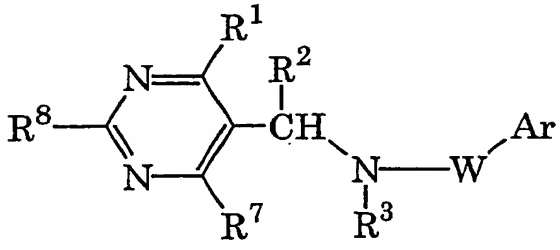
C_1-C_4 haloalkyl group, n' is an integer of from 1 to 3~~, m is an integer of from 0 to 3~~, and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~),~~;

R^7 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a

C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group~~,~~; and

R^8 is a hydrogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group.

Claim 4 (Currently Amended): A pyrimidine derivative represented by the formula (I)



(I)

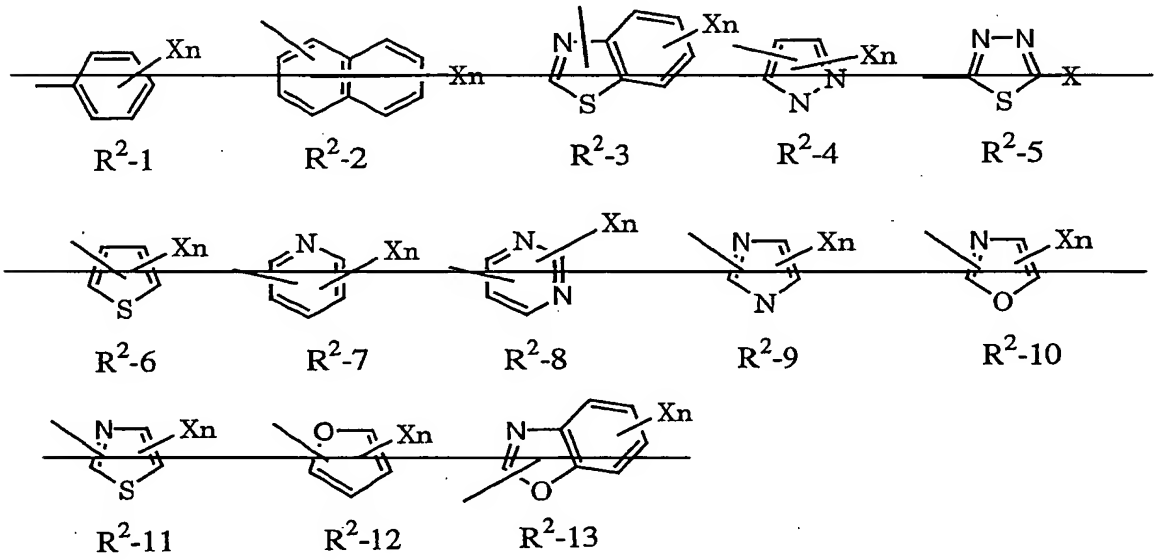
wherein R^1 is a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylcarbonyl C_1-C_6 alkyl group, a hydroxyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_2-C_6 alkynyloxy group, a C_3-C_6 cycloalkyloxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a

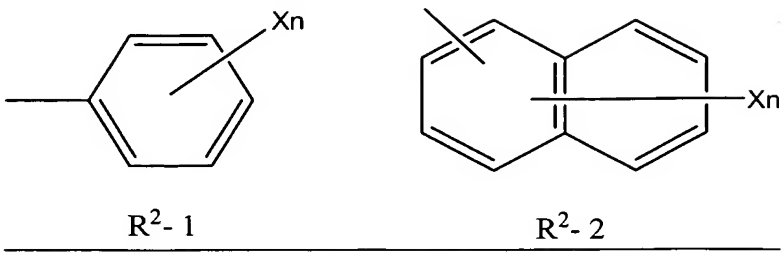
C_1-C_6 alkylthio group (except for a case where R^2 = phenyl group, and W=SO_2), a C_2-C_6 alkenylthio group, a C_2-C_6 alkynylthio group, a C_3-C_6 cycloalkylthio group, a C_1-C_6 alkylsulfinyl group, a C_2-C_6 alkenylsulfinyl group, a

C_2-C_6 alkynylsulfinyl group, a C_3-C_6 cycloalkylsulfinyl group, a C_1-C_6 alkylsulfonyl group, a C_2-C_6 alkenylsulfonyl group, a C_2-C_6 alkynylsulfonyl group, a C_3-C_6 cycloalkylsulfonyl group, a C_1-C_6 hydroxyalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano group, a cyano C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl C_2-C_6 alkenyl group, a carboxyl group, a carboxyl C_1-C_6 alkyl group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group), an aldehyde group, an oxiranyl group, a NR^9R^{10} group or a $CONR^9R^{10}$ group, and R^9 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group or a C_1-C_6 alkylsulfonyl group, and R^{10} is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio

C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkylsulfonyl group, a C_1-C_6 alkoxycarbonyl group or a benzyloxycarbonyl group~~,~~; ~~here R^9 and R^{10} may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring,~~

R^2 is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_2-C_7 acyl group, a cyano group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkoxyimino C_1-C_6 alkyl group, a hydroxyimino C_1-C_6 alkyl group, ~~a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group),~~ a cyano C_1-C_6 alkyl group, a C_1-C_6 hydroxyalkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group, a $CR^{11}R^{12}NR^9R^{10}$ group, a $CONR^9R^{10}$ group, a $CR^{11}R^{12}CONR^9R^{10}$ group or a group represented by ~~any one of~~ the formulae ~~R^2-1 to R^2-13~~ R^2-1 or R^2-2:





R^2- 1 R^2- 2

and (wherein X is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

C_1-C_4 haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group), and each of R^{11} and R^{12} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group or a C_1-C_6 alkoxy group,;

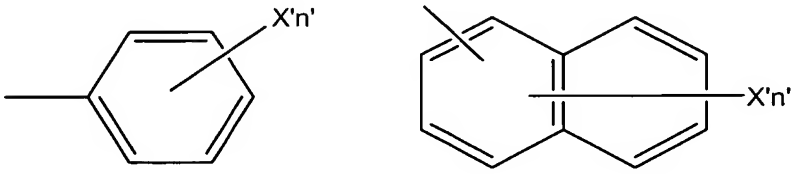
R^3 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a di C_1-C_6 alkylamino group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano C_1-C_6 alkyl group or a C_3-C_6 cycloalkyl C_1-C_6 alkyl group;;

W is a $-C(=Q)Z-$ group or a $-SO_2-$ group, Q is an oxygen atom or a sulfur atom, Z is an oxygen atom, a sulfur atom, a $-NR^6-$ group, a $-C(R^4)R^5-$ group, a

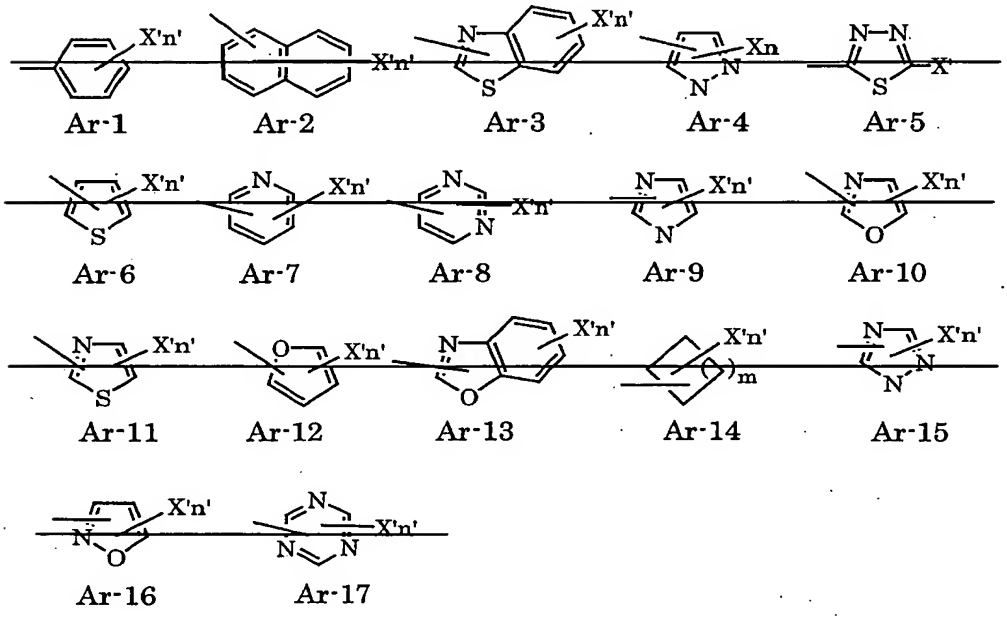
$-C(R^4)R^5-Q-$ group, a $-NR^6NR^{6a}-$ group or a $-NR^6C(R^4)R^5-$ group, and each of R^4 and R^5 is a hydrogen atom, a C_1-C_6 alkyl group, a halogen atom or a C_1-C_6 alkoxy group, and each of R^6 and R^{6a} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group or a C_2-C_6

alkynyl group~~,~~; ~~here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5- to 7-membered cyclic urea,~~

Ar is a group represented by ~~any one of~~ the formulae ~~Ar-1 to Ar-1~~ Ar-1 or Ar-2:



Ar- 1 Ar- 2



and ~~(~~wherein X' is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

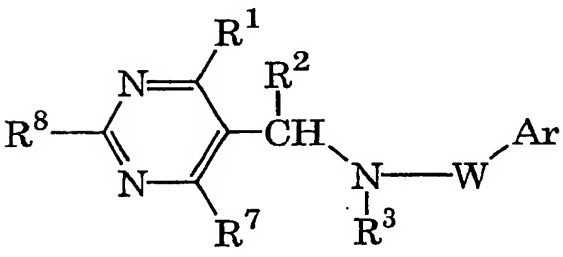
C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

C_1-C_4 haloalkyl group, n' is an integer of from 1 to 3~~, m is an integer of from 0 to 3~~, and when n' is an integer of 2 or 3, the plurality of X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~),~~;

R^7 is a hydrogen atom or a halogen atom~~,~~; and

R^8 is a hydrogen atom.

Claim 5 (Currently Amended): A pyrimidine derivative represented by the formula (I)

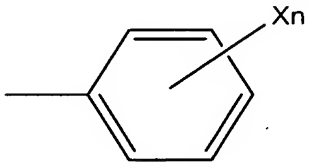


(I)

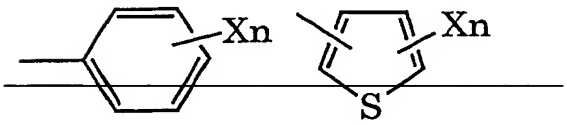
wherein R^1 is a C_1-C_6 alkyl group, a C_1-C_6 alkylcarbonyl C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy group, a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a C_1-C_6 alkylthio group (except for a case where R^2=phenyl group, and W=SO_2), a C_1-C_6 alkylsulfinyl group, a C_2-C_7 acyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano group, a

cyano C_1-C_6 alkyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkoxycarbonyl C_2-C_6 alkenyl group, a carboxyl group, a di C_1-C_6 alkoxy C_1-C_6 alkyl group or a C_1-C_6 alkoxyimino C_1-C_6 alkyl group~~;~~

R^2 is a C_1-C_6 alkyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group) a C_2-C_7 acyl group, or a group represented by ~~either~~ the formula R^2-1 ~~or R^2-6~~:



R^2- 1



R^2-1 R^2-6

and ~~(~~wherein X is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

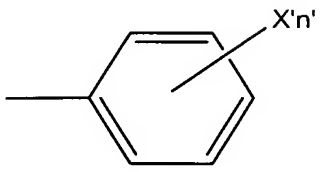
C_1-C_4 haloalkyl group, n is an integer of from 1 to 3, and when n is an integer of 2 or 3, the plurality of X may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~)~~, and R^9 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a

C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group or a C_1-C_6 alkylsulfonyl group, and R^{10} is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_4 haloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group, a C_2-C_7 acyl group, a C_1-C_6 alkylsulfonyl group, a C_1-C_6 alkoxycarbonyl group or a benzyloxycarbonyl group, ~~here R^9 and R^{10} may, together with the carbon atom to which they are bonded, form a 5- to 7-membered saturated ring~~, and each of R^{11} and R^{12} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group or a C_1-C_6 alkoxy group~~,~~;

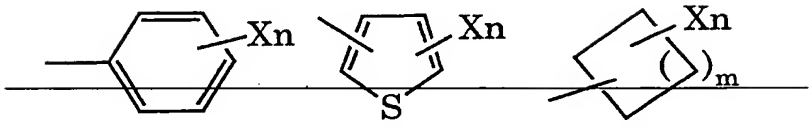
R^3 is a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group or a cyano C_1-C_6 alkyl group~~,~~;

W is a –C(=Q)Z- group or a $–SO_2$- group, Q is an oxygen atom or a sulfur atom, Z is a $–NR^6$- group, a $–C(R^4)R^5$- group, a $–C(R^4)R^5$-Q- group, a $–NR^6NR^{6a}$- group or a $–NR^6C(R^4)R^5$- group, and each of R^4 and R^5 is a hydrogen atom, a C_1-C_6 alkyl group, a halogen atom or a C_1-C_6 alkoxy group, and each of R^6 and R^{6a} is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group or a C_2-C_6 alkynyl group~~,~~; ~~here R^3 and R^6 may, together with the carbon atom to which they are bonded, form a 5- to 7-membered cyclic urea,~~

Ar is a group represented by ~~either the~~ formula Ar-1~~, Ar-6 or Ar-14~~:



Ar- 1



Ar-1 Ar-6 Ar-14

and ~~(~~wherein ~~X~~ X' is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a NR^9R^{10} group, a $CONR^9R^{10}$ group, a C_1-C_4 haloalkoxy group, a C_2-C_6 alkenyloxy group, a C_3-C_6 cycloalkyloxy group, a

C_2-C_7 acyl group, a C_1-C_6 alkoxycarbonyl group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group, a C_1-C_6 alkylsufonyl group, a cyano group, a nitro group or a

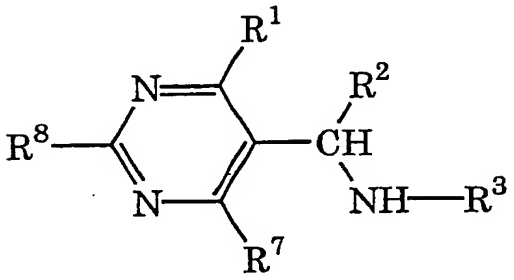
C_1-C_4 haloalkyl group, ~~n~~ n' is an integer of from 1 to 3~~, m is an integer of from 2 or 3~~, and when ~~n~~ n' is an integer of 2 or 3, the plurality of ~~X~~ X' may be the same or different, and two adjacent lower alkoxy groups may be bonded to each other to form a C_1-C_3 alkylenedioxy group~~),~~;

R^7 is a hydrogen atom, a halogen atom, a C_1-C_6 alkyl group, a

C_1-C_6 alkoxy group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group~~,~~; and

R^8 is a hydrogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkylthio group, a C_1-C_4 haloalkyl group or a C_3-C_6 cycloalkyl group.

Claim 6 (Currently Amended): A pyrimidine derivative represented by an intermediate represented by the formula (II)



(II)

wherein R^1 is a C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group), a C_1-C_6 alkoxy C_1-C_6 alkyl group, a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group) or a di C_1-C_6 alkoxy C_1-C_6 alkyl group~~,~~;

R^2 is a C_1-C_6 alkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a C_1-C_6 alkylthio C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group or a C_1-C_4 haloalkyl group), a phenyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6 alkylsulfonyl group)~~, a thienyl group (this group may be substituted by a halogen atom, a C_1-C_6 alkyl group, a C_1-C_6 alkoxy group, a C_1-C_4 haloalkyl group, a C_1-C_4 haloalkoxy group, a cyano group, a nitro group, a C_1-C_6 alkylthio group, a C_1-C_6 alkylsulfinyl group or a C_1-C_6~~

~~alkylsulfonyl group)~~, or a di C_1-C_6 alkoxy C_1-C_6 alkyl group ~~or a dioxolanyl group (this group may be substituted by a C_1-C_6 alkyl group),~~;

R^3 is a hydrogen atom, a C_1-C_6 alkyl group, a C_2-C_6 alkenyl group, a C_2-C_6 alkynyl group, a C_1-C_6 alkoxy group, a C_3-C_6 cycloalkyl group, a C_1-C_6 alkoxy C_1-C_6 alkyl group, a cyano C_1-C_6 alkyl group, a C_3-C_6 cycloalkyl C_1-C_6 alkyl group, an oxiranyl C_1-C_6 alkyl group or a C_1-C_6 alkoxycarbonyl C_1-C_6 alkyl group~~,~~;

R^7 is a hydrogen atom or a C_1-C_6 alkoxy group~~,~~; and

R^8 is a hydrogen atom, a C_1-C_6 alkyl group or a C_3-C_6 cycloalkyl group.

Claim 7 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 1, as an active ingredient.

Claim 8 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 2, as an active ingredient.

Claim 9 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 3, as an active ingredient.

Claim 10 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 4, as an active ingredient.

Claim 11 (Previously Presented): A herbicide containing the pyrimidine derivative as defined in Claim 5, as an active ingredient.